

Study programme(s): Computer Science				
Level: master				
Course title: Computer Graphics				
Lecturer: Dragan Mašulović				
Status: elective				
ECTS: 8				
Requirements: Linear Algebra and Analytic Geometry, Introduction to Computer Graphics				
Learning objectives In this course students shall acquire advanced knowledge of computer graphics modeling and rendering techniques in 2D and 3D using OpenGL.				
Learning outcomes At the end of the course a successful student will be able to model advanced graphics objects and implement advanced rendering algorithms using OpenGL.				
Syllabus <ul style="list-style-type: none"> • Advanced 2D viewing • Advanced 3D viewing • Advanced 3D object representation and Constructive Solid Geometry • Advanced illumination models • Advanced surface-rendering methods, Ray tracing 				
Literature Hearn, Baker: "Computer Graphics with OpenGL", 3rd Ed., Pearson Education International, 2004 Foley, van Dam, Feiner, Hughes: "Computer Graphics - Principles and Practice", 2nd Ed, Addison-Wesley, 1996				
Weekly teaching load				
Lectures: 2	Exercises : 1	Practical Exercises: 2	Student research: 0	Other: 0
Teaching methodology Blackboard demonstration, Working in small groups, Student projects				
Grading method (maximal number of points 100)				
Pre-exam obligations	points	Final exam	points	
<i>Test 1</i>	15	<i>Student project</i>	70	
<i>Test 2</i>	15			